

Rule 1113 - Architectural Coatings

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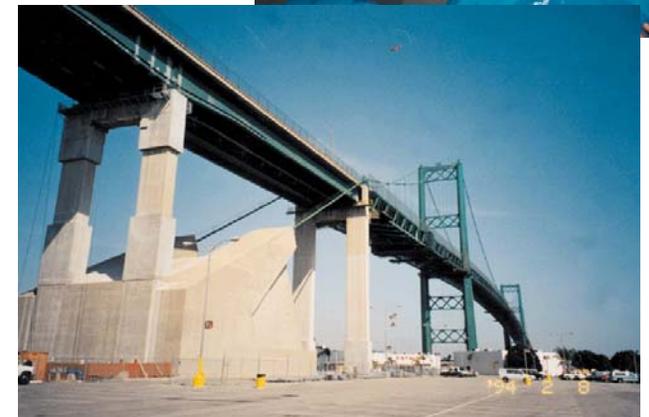
**South Coast Air Quality
Management District**

July 9, 2008

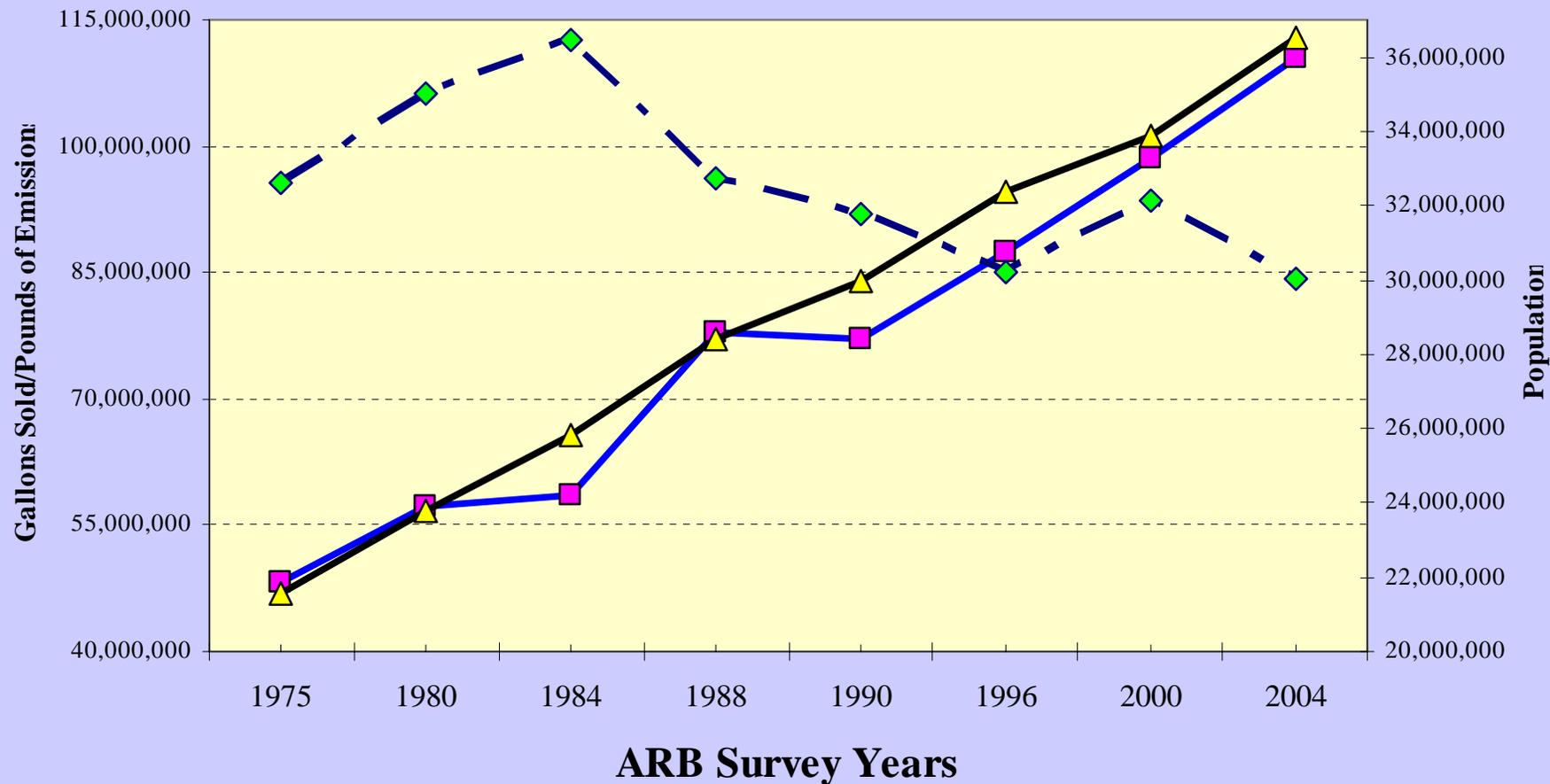


Rule 1113 – Architectural Coatings

- First Adopted on September 2, 1977
- Last Amended July 13, 2007
- Architectural coatings – one of the single largest emissions category of area and stationary sources
- Current Inventory (annual average) about 32 TPD



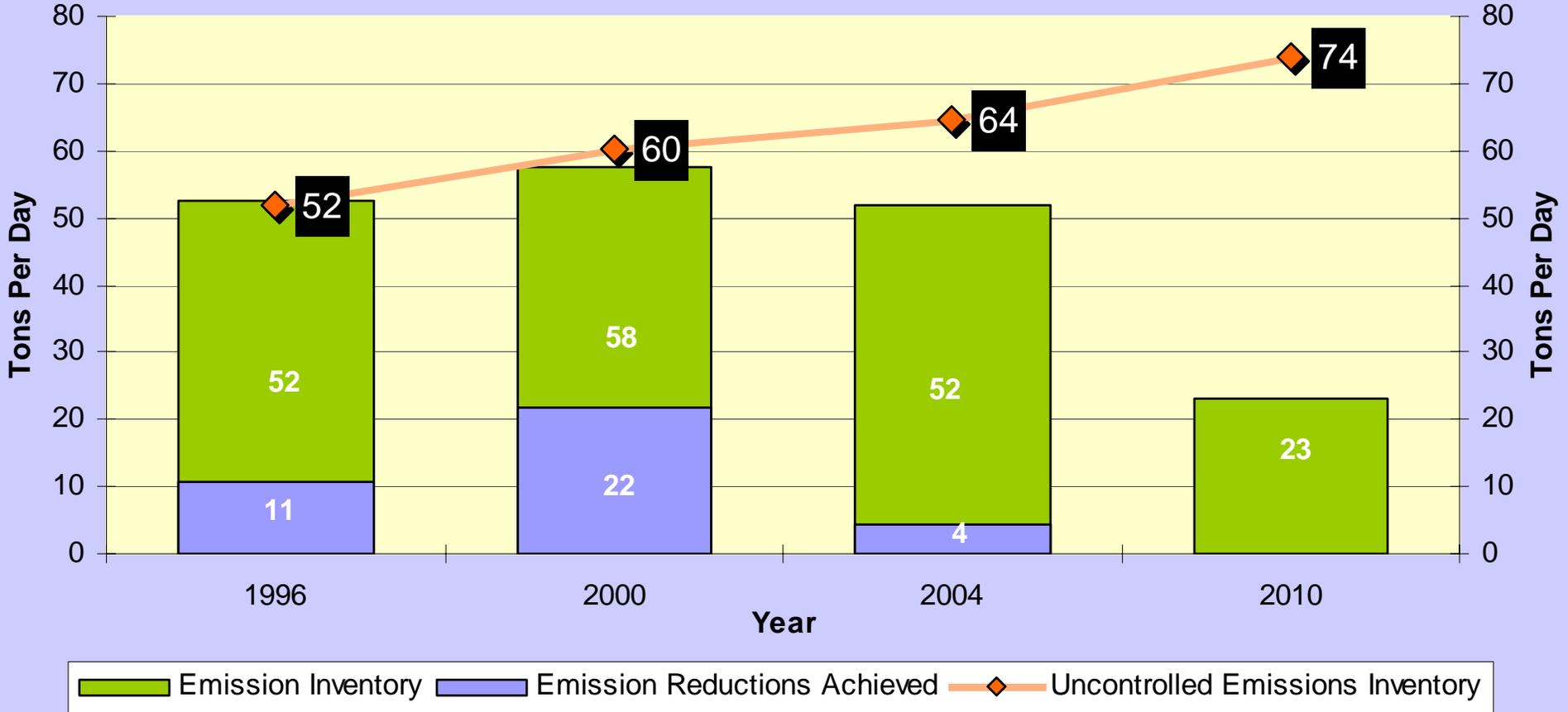
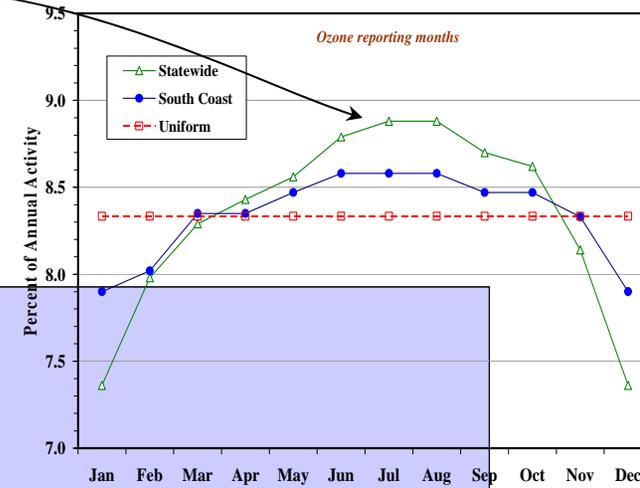
Architectural Coating Sales, Emissions and CA Population



—■— Sales Volume (gallons) —◆— Emission Inventory (lbs/yr) —▲— California's Population

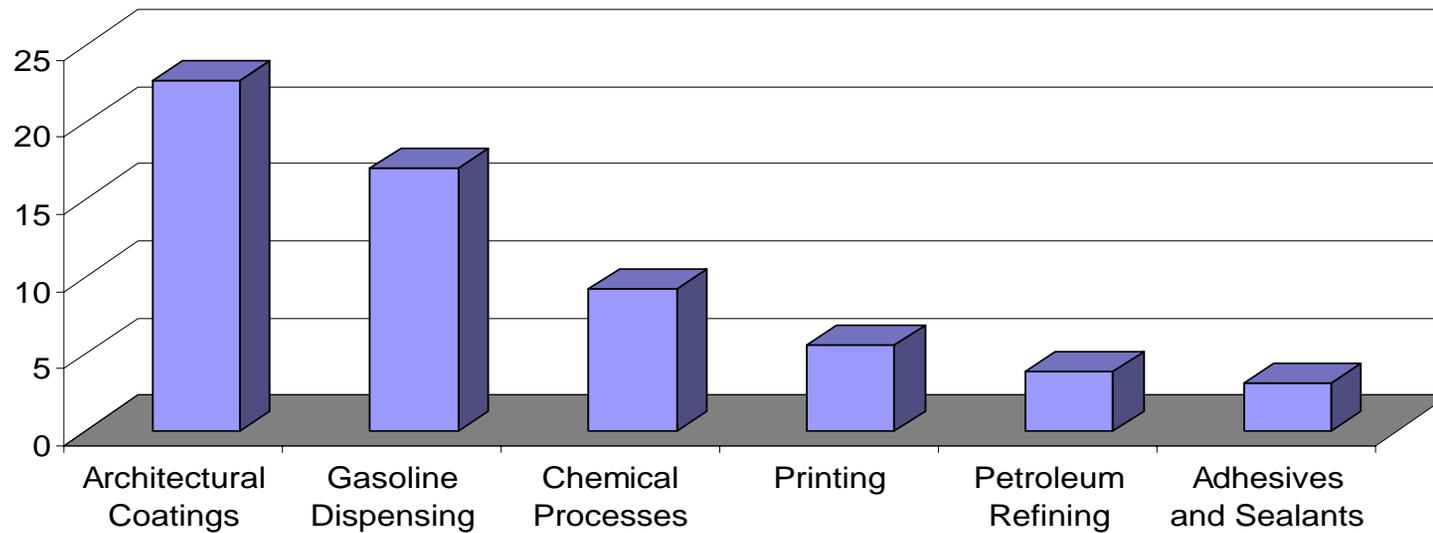
Summer (Planning) Inventory about 30% higher

Architectural Coatings Annual Average Emissions



Emission Inventory
 Emission Reductions Achieved
 Uncontrolled Emissions Inventory

Comparison of Daily VOC Emissions Estimated 2010 Annual Average Emissions



23 TPD from Architectural Coatings

= **1.7 million vehicles**

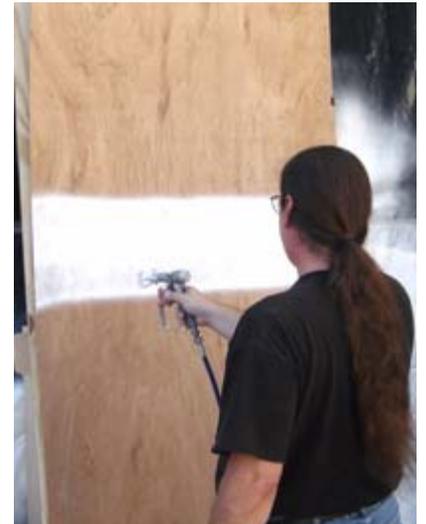
Rule 1113 vs SCM (Major Categories)

COATING CATEGORY	AQMD Effective Limit	SCM Effective 2010/2012
Clear Wood Finishes	275	275
Flats	50	50
Floor Coatings	50	100
Industrial Maintenance (IM) Coatings	100	250
High Temperature IM Coatings	420	420
Zinc-Rich IM Primers	100	340
Nonflat Coatings	50	100
Nonflat High Gloss	50	150
Primers, Sealers, and Undercoaters	100	100
Quick-Dry Enamels	50	250
Quick-Dry, Primers, Sealers, and Undercoaters	100	100
Roof Coatings	50	50
Rust Preventative Coatings	100	250
Specialty Primers	100	100
Stains, Exterior	100	250-275
Stains, Interior	250	250-275
Traffic Coatings	100	50-100
Waterproofing Sealers	100	100-400
Waterproofing Concrete/Masonry Sealers	100	100-450

Additional
6 TPD reductions
with South Coast
Limits

Performance Studies

- Past Studies
 - National Technical Systems Study, 1998
 - AVES Feasibility Study and Tech Assessment, 1999
 - Essential Public Service Studies, 1999 - 2006
 - Southern California Alliance of Publicly Owned Treatment Works (SCAP), 2000
 - KTA-Tator Study, 2001
 - Rule 1136, Wood Products Coatings, Technical Assessment, 2003
 - University of Missouri, Rolla Coatings Institute (UMR) Study, 2004 – 2005, 2007



Staff Findings

- Greater number of compliant or super-compliant products virtually in all coating categories
 - Painter's Guide to Clean Air – link for Super-Compliant Architectural Coating Manufacturers
 - www.aqmd.gov/prdas/brochures/paintguide.html
- Products meeting or exceeding industry and public performance requirements continue to grow
- Courts have upheld technical feasibility
- Private Standards Groups conducting paint testing
 - Green Seal – GS11
 - Scientific Certification Systems
 - GREENGUARD Environmental Institute



Next Steps

- Develop a Clean Coatings Certification Program
 - Based on Clean Air Solvents & Clean Air Cleaners Certification Programs
 - Some municipalities and others have adopted certified products only as a purchasing requirement
 - Serves as a marketing advantage for manufacturers
- Continue emission reduction efforts
 - mass-based
 - alternative approaches, including reactivity



Questions ?

